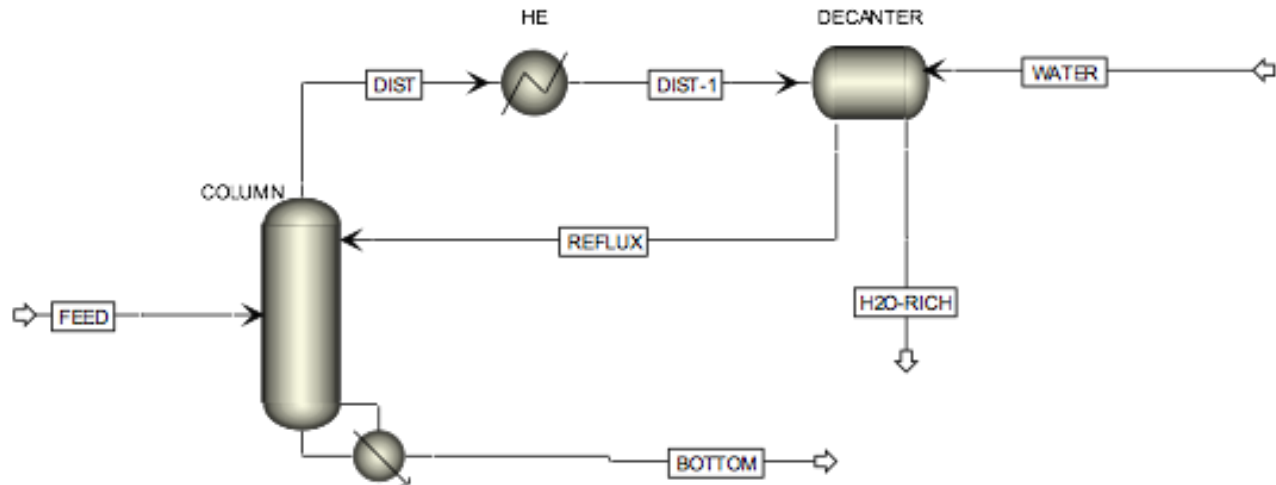


**Description -  
Ethyl Acetate (EA)-Water-Ethanol Extractive System  
Process Flow Diagram**



**Process Description**

Ethyl acetate (EA), water and ethanol mixture is fed to the distillation column. EA-Water-Ethanol heterogeneous azeotrope is removed as a distillate. This heterogeneous azeotrope is cooled and washed with water. Ethyl Acetate rich phase is fed to the column as reflux and water rich phase is removed as a distillate. The ethyl acetate of 99.5% (wt.) is removed as bottom product.

Typical feed composition,

<b>Ethyl Acetate</b>	<b>85-90 % (wt.)</b>
<b>Water</b>	<b>05-10% (wt.)</b>
<b>Ethanol</b>	<b>05-10% (wt.)</b>

**Operating Conditions**

Pressure                      Distillation columns are operating under atmospheric pressure  
Column Internals            Structured packing for the column (Type FP-3.5L)



### **Experience**

**Finepac® Structures has supplied a number of separating systems involving azeotropic distillation. EA-Water-Ethanol is a typical system involving EA-Water-ethanol ternary heterogeneous azeotrope. The design involves prediction of azeotrope of EA-Water-Ethanol and proper residence time in decanter.**